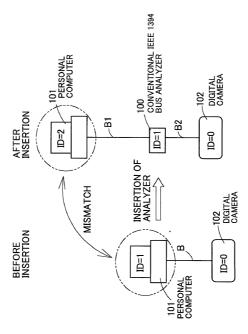
The state of the s FIG.

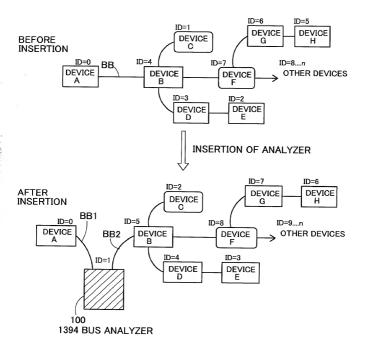
CONVENTIONAL BUS ANALYZER IS CONNECTED CONSTRUCTION OF IEEE 1394 BUS TO WHICH



1

FIG. 2

CONSTRUCTION IN WHICH CONVENTIONAL BUS ANALYZER IS CONNECTED TO IEEE 1394 BUS TO WHICH A NUMBER OF DEVICES ARE CONNECTED



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CONSTRUCTION IN WHICH BUS ANALYZER OF FIRST EMBODIMENT IS CONNECTED TO IEEE 1394 BUS FIG. 3

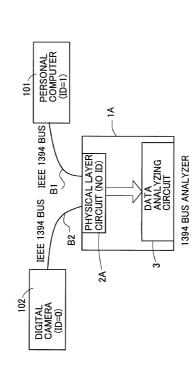
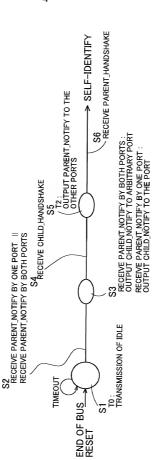


FIG. 4

STATE TRANSITION DIAGRAM SHOWING TREE—IDENTIFYING OPERATION IN FIRST EMBODIMENT



STATE TRANSITION DIAGRAM SHOWING SELF-IDENTIFYING OPERATION IN FIRST EMBODIMENT FIG. 5

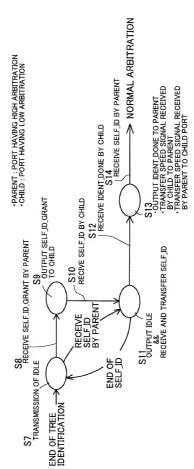


FIG. 6 TREE-IDENTIFYING OPERATION IN FIRST EMBODIMENT (RECEIVE PARENT_NOTIFY BY ONE OF PORTS)

(P1) RECEIVE PARE	ENT_NOTIFY FROI	M DIGITAL CAM	ERA
102 DIGITAL CAMERA	_	L LAYER CIRCUIT	101 PERSONAL COMPUTER
	PARENT_NOTIFY→ (B2	B1 /	
(P2) OUTPUT CHILI	D_NOTIFY TO DIG	ITAL CAMERA	
(HIGH)	2A PHYSIC PARENT_NOTIFY→ ←CHILD_NOTIFY B2	AL LAYER CIRCUIT	101 PERSONAL COMPUTER
(P3) RECEVE CHILD	 _HANDSHAKE BY OTIFY FROM DIG 2A	ITAL CAMERA AL LAYER CIRCUIT	TPUT 101 PERSONAL COMPUTER
(P4) OUTPUT PARE ROOT_CONTEN PARENT_NOTIF	B2 NT NOTIFY TO TH	HE OTHER PORT	JTER ALSO OUTPUTS
102 DIGITAL CAMERA (HIGH)	2A PHYSICA B2←CHILD_NOTIFY	LAYER CIRCUIT PARENT	T_NOTIFY
(P5) STOP OUTPUT BUT CONTINU- LAYER CIRCUI	OUSLY OUTPUT I	TIFY FROM PE PARENT_NOTIFY	`B1 RSONAL COMPUTER / FROM PHYSICAL
102 DIGITAL CAMERA	2A	(LOW) PARENT N	101 PERSONAL COMPUTER IOTIFY→
(P6) RECEIVE PARE OUTPUTS CHIL	NT_HANDSHAKE \ _D_NOTIFY AFTER	WHEN PERSONA R RANDOM TIME	
102 DIGITAL CAMERA (HIGH)	B2 PHYSICA PHYSICA (LOW	() (HIGH)———	101 PERSONAL COMPUTER I_NOTIFY → D_NOTIFY / B1
(P12) STOP OUTPU FINISHING TR 102	TTING SIGNALS F REE-IDENTIFYING 2A	ROM BOTH PO OPERATION	RTS, THEREBY
DIGITAL CAMERA (HIGH)	PHYSICA (LOW	L LAYER CIRCUIT	PERSONAL COMPUTER (LOW)

FIG. 7

TREE-IDENTIFYING OPERATION IN FIRST EMBODIMENT (RECEIVE PARENT_NOTIFY BY BOTH PORTS)

(P7) RECEIVE PARENT_NOTIFY FROM BOTH DEVICES
102 DIGITAL CAMERA PHYSICAL LAYER CIRCUIT PERSONAL COMPUTER PARENT_NOTIFY B2 PARENT_NOTIFY PARENT_NOTIFY
(P8) OUTPUT CHILD_NOTIFY TO DIGITAL CAMERA
102 DIGITAL CAMERA PHYSICAL LAYER CIRCUIT PERSONAL COMPUTER (HIGH) PARENT_NOTIFY PARENT_NOTIFY PARENT_NOTIFY
(P9) STOP OUTPUTTING PARENT NOTIFY FROM DIGITAL CAMERA TO THEREBY RECEIVE CHILD HANDSHAKE, AND OUTPUT PARENT NOTIFY TO PERSONAL COMPUTER. RECEIVE ROOT CONTENTION WHEN PERSONAL COMPUTER ALSO OUTPUTS PARENT NOTIFY AT THIS TIME.
DIGITAL CAMERA PHYSICAL LAYER CIRCUIT PERSONAL COMPUTER PARENT NOTIFY (HIGH) — CHILD NOTIFY (LOW) — PARENT NOTIFY
(P10) STOP OUTPUTTING PARENT_NOTIFY FROM PERSONAL COMPUTER BUT CONTINUOUSLY OUTPUT PARENT_NOTIFY FROM PHYSICAL LAYER CIRCUIT
DIGITAL CAMERA PHYSICAL LAYER CIRCUIT PERSONAL COMPUTER (HIGH) CHILD,NOTIFY (LOW) PARENT_NOTIFY B1
(P11) OUTPUT CHILD_NOTIFY FROM PERSONAL COMPUTER AFTER RANDOM TIME, THEREBY RECEIVING PARENT_HANDSHAKE
DIGITAL CAMERA PHYSICAL LAYER CIRCUIT PERSONAL COMPUTER (HIGH) (HIGH) CHILD,NOTIFY B2 PARENT_NOTIFY CHILD,NOTIFY
(P12) FINISH TREE-IDENTIFYING OPERATION
DIGITAL CAMERA PHYSICAL LAYER CIRCUIT (HIGH) B2 (LOW) (HIGH) (LOW)